

REMARKS

Reconsideration and allowance of this application are respectfully requested in view of the above amendment and the discussion below.

The presently defined invention concerns an information system capturing signals, processing signals and providing output signals at least partially based on the captured signals. A signal input unit is constructed and positioned to capture signals associated with an eye and the output unit provides information based on the captured signals.

Original Claims 1-20 were rejected under 35 U.S.C. §103 as anticipated by the reference to Fukushima et al (U.S. Patent No. 6,346,929) as indicated in the Patent Office Action at items 2-11 on pages 2-7. In response to this rejection, Applicants have cancelled Claims 5, 10, 14 and 20 including independent Claim 20 with independent Claims 1, 6, 7, 8, 9 and 13 being amended to further clarify the distinctions between the claimed invention and the reference to Fukushima et al '929. Additionally, Applicants have provided new Claims 21-31 which are fully supported by the specification and which include independent Claims 24, 28 and 30-31.

The reference to Fukushima et al '929 will now be discussed with respect to the claims remaining in this application including amended independent Claims 1, 6, 7, 8, 9 and 13 as well as new independent Claims 24, 28 and 30-31.

Fukushima et al '929 is a display apparatus which detects body part motion and displays video information. A controller makes the display device display an element for input of an operation instruction and starts a process which corresponds to the display when the detecting device detects a specified motion corresponding to the display element. In the rejection of independent Claims 1, 6 and 9, the Examiner cites Fukushima et al '929 for teaching an optical signal unit capturing signals associated with an eye or signals reflected back from at least one eye including the retina.

Applicants submit that each of Claims 1, 6 and 9 now recite that the optical signal unit at least partially captures a corneal reflex of a "naturally perceived field of view of said eye".

Column 11, lines 8-17 of Fukushima et al '929 indicates capturing of the corneal reflex, however, such captured reflex is "infrared light that is actively projected" onto the eye by the display apparatus. This is not a corneal reflex of a naturally perceived field of view as claimed in each of independent Claims 1, 6 and 9.

Independent Claims 7 and 8 each recite a scanning detection unit for capturing a retinal reflex image. According to the Statement of the Rejection at items 5 and 6, Fukushima et al '929 was cited for having such teaching. Applicants are unable to locate such teaching. Additionally, Applicants submit

that all embodiments of Fukushima et al '929 project electromagnetic radiation to the user's retina during the course of providing information whereas independent Claim 7 now recites that such radiation is not projected onto the retina during the course of providing information. Furthermore, Applicants submit that Column 11, lines 1-37, as referred to at item 6 of the Office Action, does not disclose partial capture of the retinal reflex image during a scanning operation and the less comprehensive capture of the retinal reflex image in another scanning operation.

With respect to the rejection of Claim 13, Applicants are unaware of any disclosure in Fukushima et al '929 how the camera captures signal that have been reflected back from an eye or that emanate from the eye such as the infrared radiation of the blood vessels of the retina, as disclosed in the specification at page 19, lines 22-23.

With respect to newly added Claims 24 and 30, Applicants submit, as discussed above with respect to independent Claims 1, 6 and 9, that Fukushima et al '929 does not disclose capturing the retinal reflex of a naturally occurring field of view of the eye but instead only shows capturing the corneal reflex of infrared light that is actively projected onto the eye. These distinguishing features are particularly defined in new independent Claims 24 and 30.

Claims 28 and 31 recite that the optical signal unit projects light onto the eye to capture a portion of the projected light that has been reflected from the retina of the eye indicative of retinal characteristics. It is submitted that Fukushima et al '929 has no disclosure of this claim limitation. Additionally, Fukushima et al '929 lacks a teaching with regard to determining, on the basis of these retinal characteristics, the orientation of the eye.

Additionally, with respect to defining limitations of the above-discussed independent Claims 1, 6, 9, 24 and 30, Applicants wish to bring to the attention of the Examiner page 14, lines 13-18 of the originally filed specification wherein Applicants define, based on the field of ophthalmology, a distinction between "field of view" and "field of vision". As specifically stated therein, for the purpose of this application, the "field of view" is understood as the cause of the light that naturally falls onto an eye. This further enhances the meaning of the limitation of the Claims 1, 6, 9, 24 and 30 with respect to "naturally perceived field of view" to clearly indicate that it cannot include any reflection of infrared light actively projected onto the eye as disclosed in Fukushima et al '929.

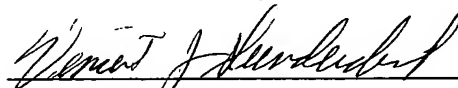
Therefore, in view of the distinguishing features between the claimed invention and the reference which features are not shown or discussed or made obvious by the reference, Applicants respectfully request that this application containing Claims 1-4, 6-9, 11-13, 15-19, and 21-31 including independent

Claims 1, 6-9, 13, 24, 28 and 30-31 as well as the remaining dependent claims which depend from and contain all the limitations of an independent claim, be allowed to be passed to issue.

If there are any questions regarding this amendment or the application in general, a telephone call to the undersigned would be appreciated since this should expedite the prosecution of the application for all concerned.

If necessary to effect a timely response, this paper should be considered as a petition for an Extension of Time sufficient to effect a timely response, and please charge any deficiency in fees or credit any overpayments to Deposit Account No. 05-1323 (Docket #101795.56303US).

Respectfully submitted,



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